Agenda

6:00 Open House

6:30 Presentations

- Welcome
- Project Overview (Michelle Ginder)
  - Construction Schedule and Update
- Business Mitigation Update (Jennifer Lemus)
- Nighttime Construction Noise (Ron Endlich)
  - Noise Variance Process
  - Noise Impacts and Mitigation
  - Community Involvement and Next Steps

7:15 Q & A

7:45 Return to Open House

Sound Transit Capitol Hill Station Construction Noise and Project Update

October 8, 2009

6:00 – 8:00 PM

SOUNDTRANSIT

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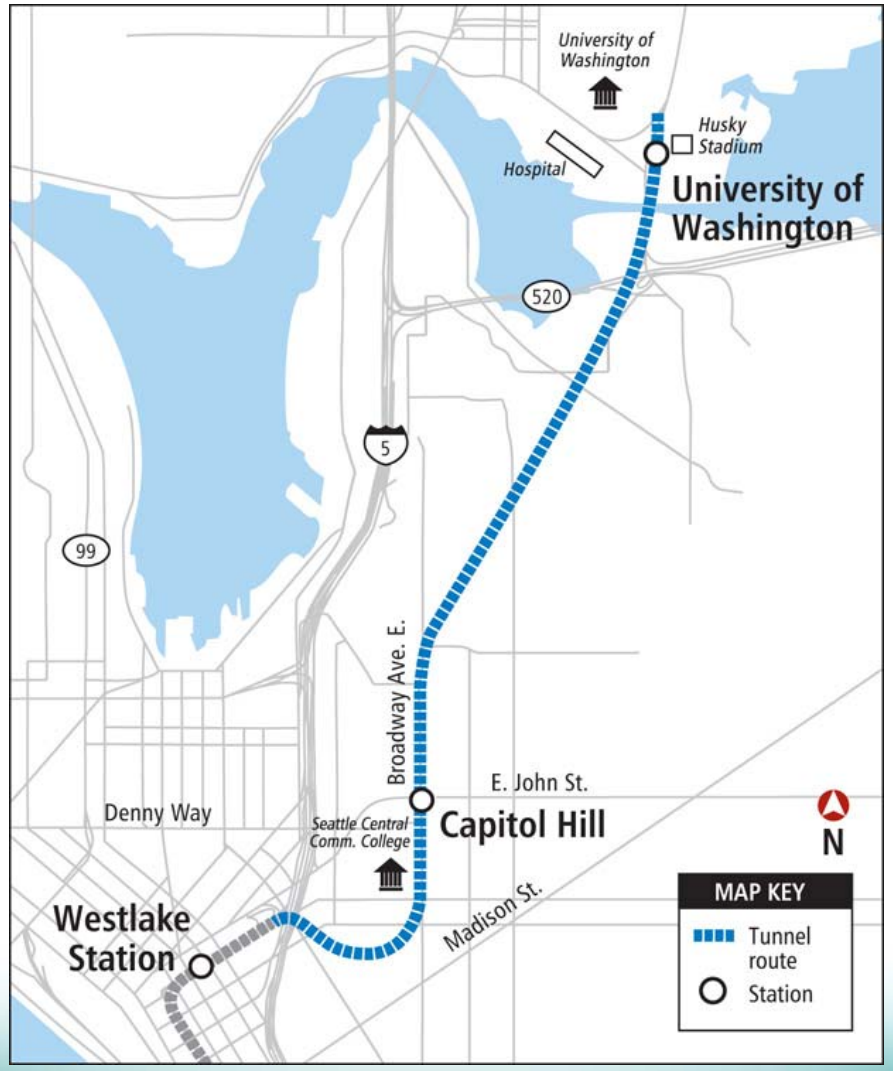
RIDE THE WAVE

University Link



- 3.15-mile extension of Initial Segment and Airport Link
  - Capitol Hill Station
  - UW Station and crossover
- Schedule
  - Construction: 6.5 years
  - System testing: 6 months
  - Open for Service: 2016
- Adds 70,000 daily riders, 114,000 riders systemwide (2030)

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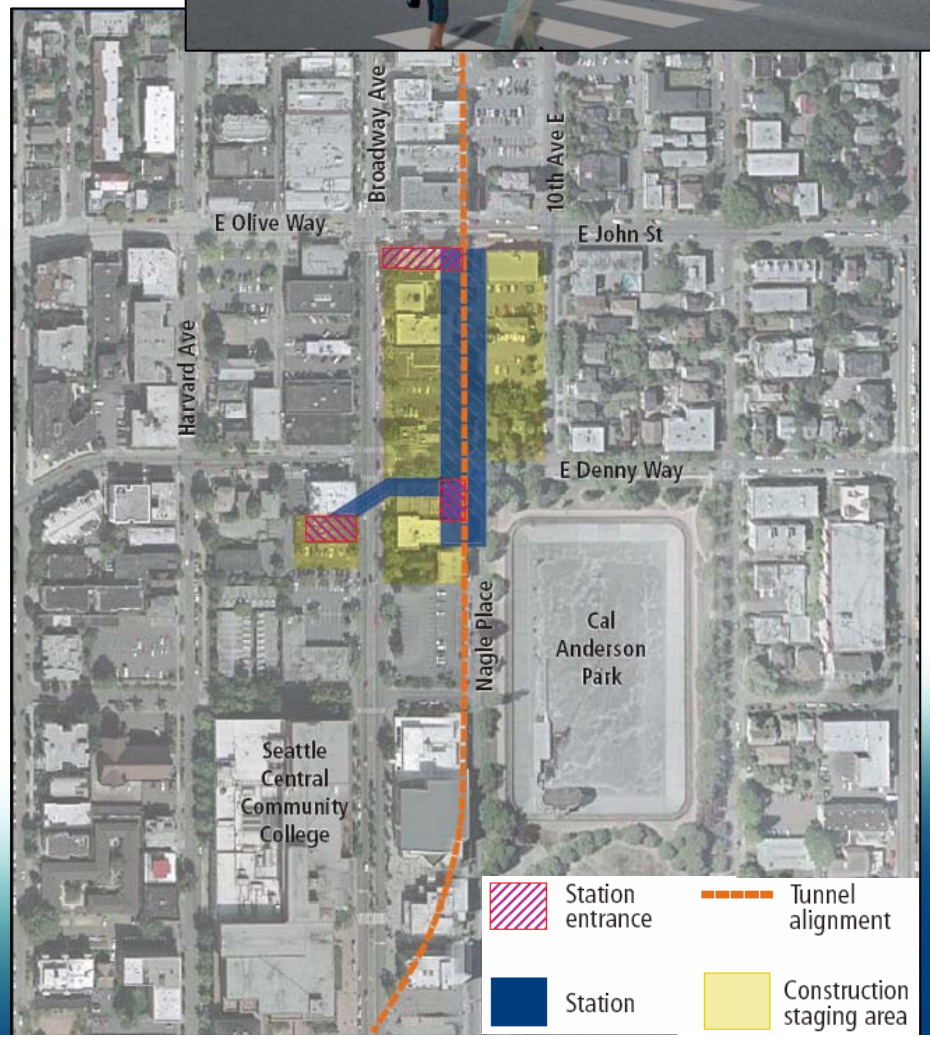
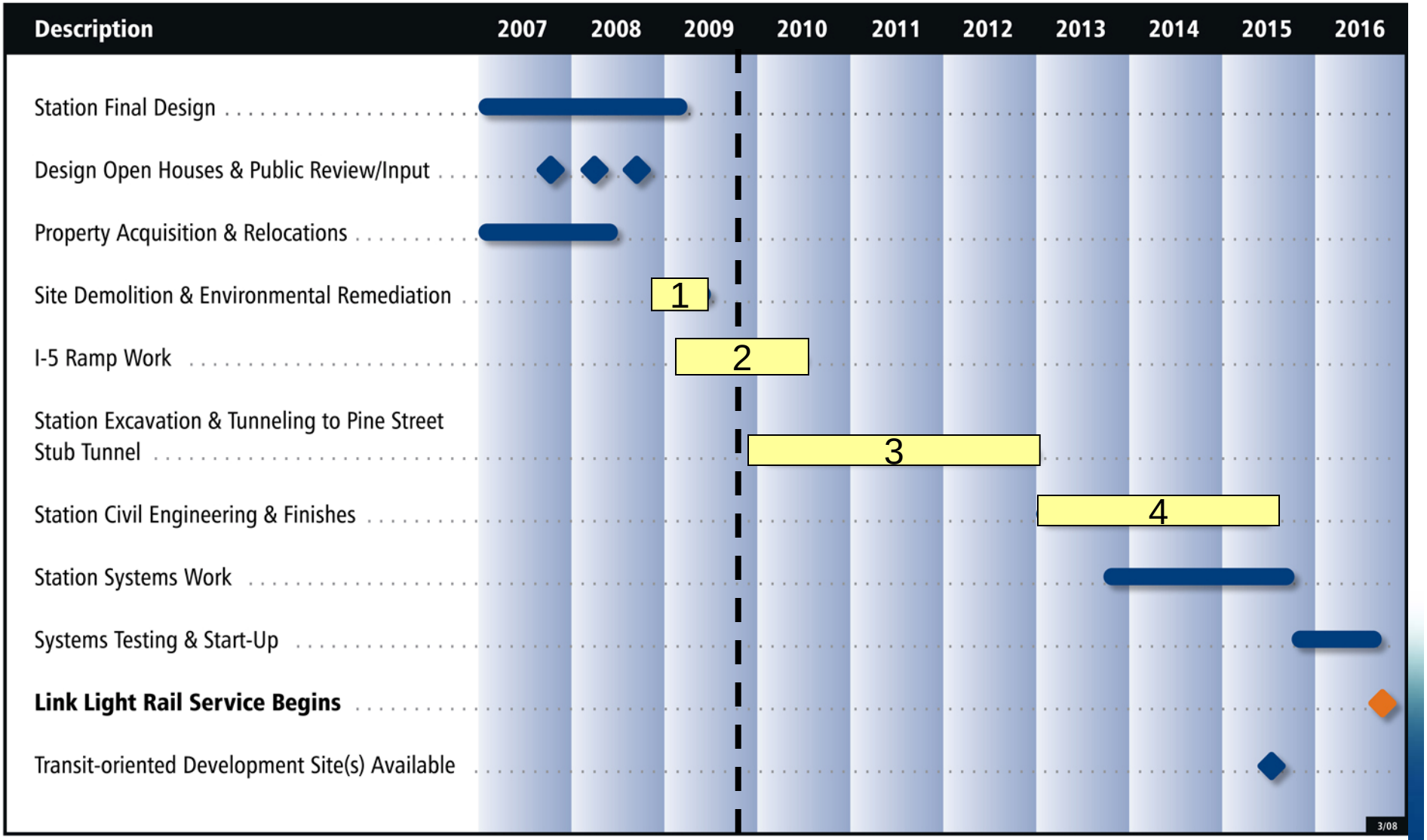
Capitol Hill Station

- Underground station with 3 entrances
- Staging area - station and tunnel excavation at site
- Ridership: 14,000 daily boardings
- Travel time:
  - 6 minutes to downtown Seattle (University St.)
  - 3 minutes to UW Station



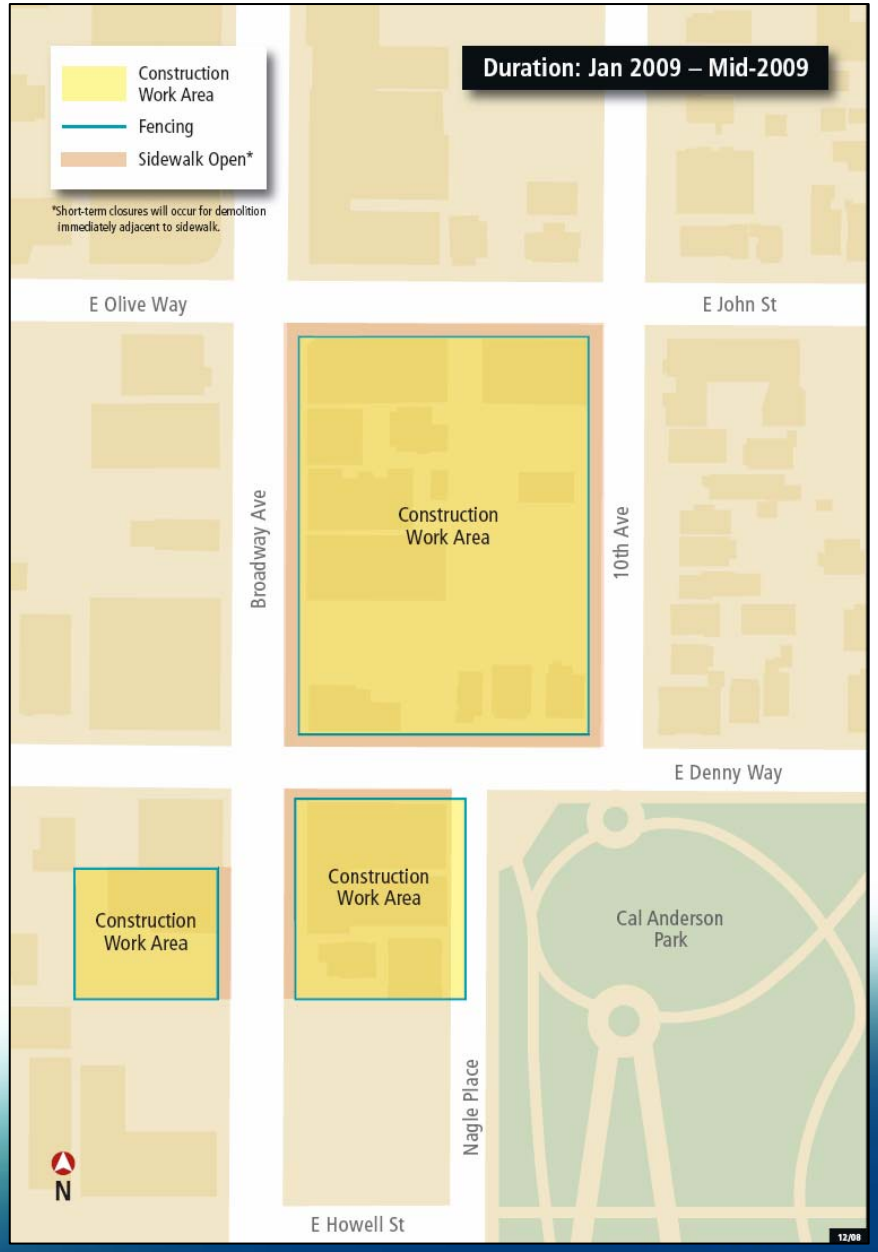
Capitol Hill Station Schedule



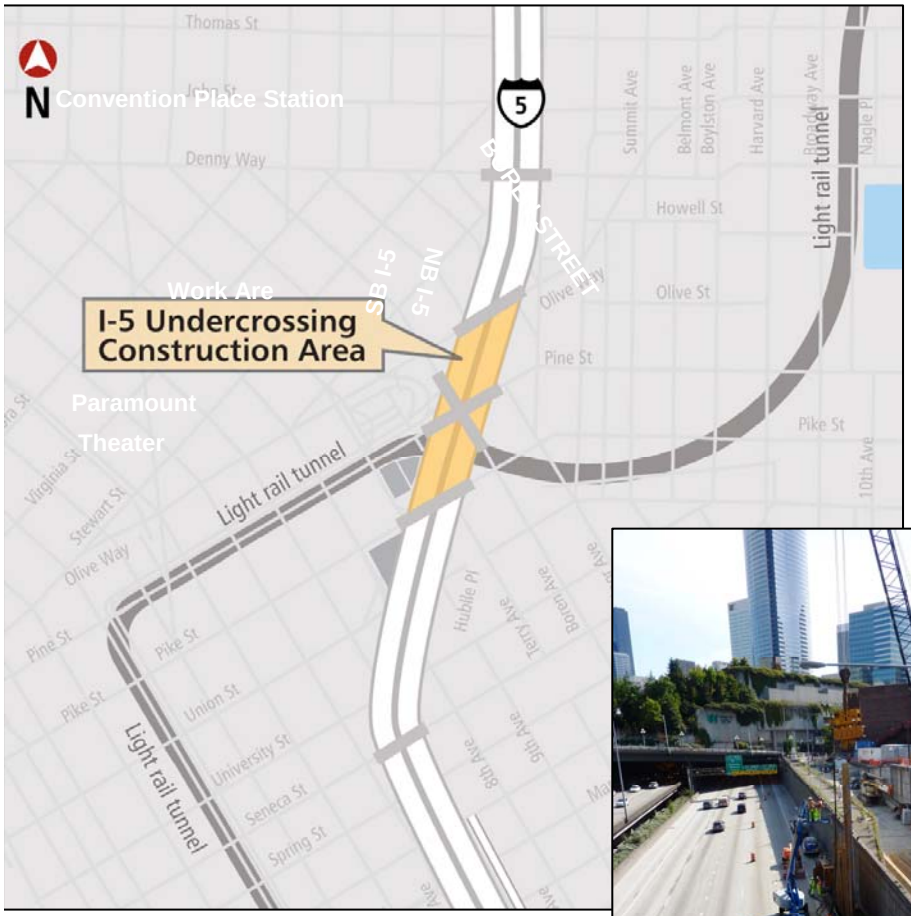
RIDE THE WAVE

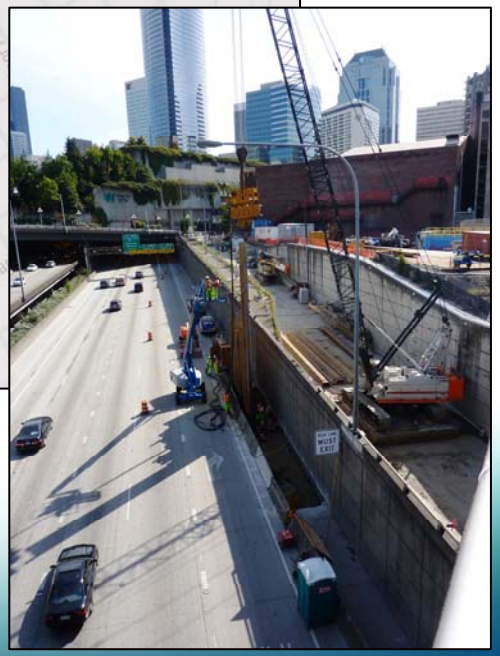
1. Demolition and Remediation

- Completed in August 2009
- 75% Recycling and salvage goal met
- Site paved and fenced until start of tunneling and excavation work in early 2010



2. I-5 Undercrossing Work





- Preparing I-5 structures for future tunnel boring machines
- Work being done now to avoid conflicts with other WSDOT freeway work and later U-Link contracts
- Work to be completed spring 2010

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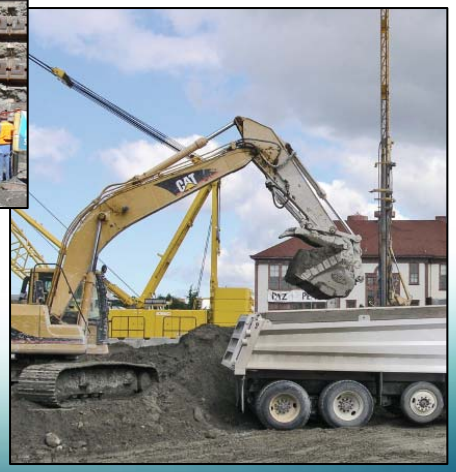
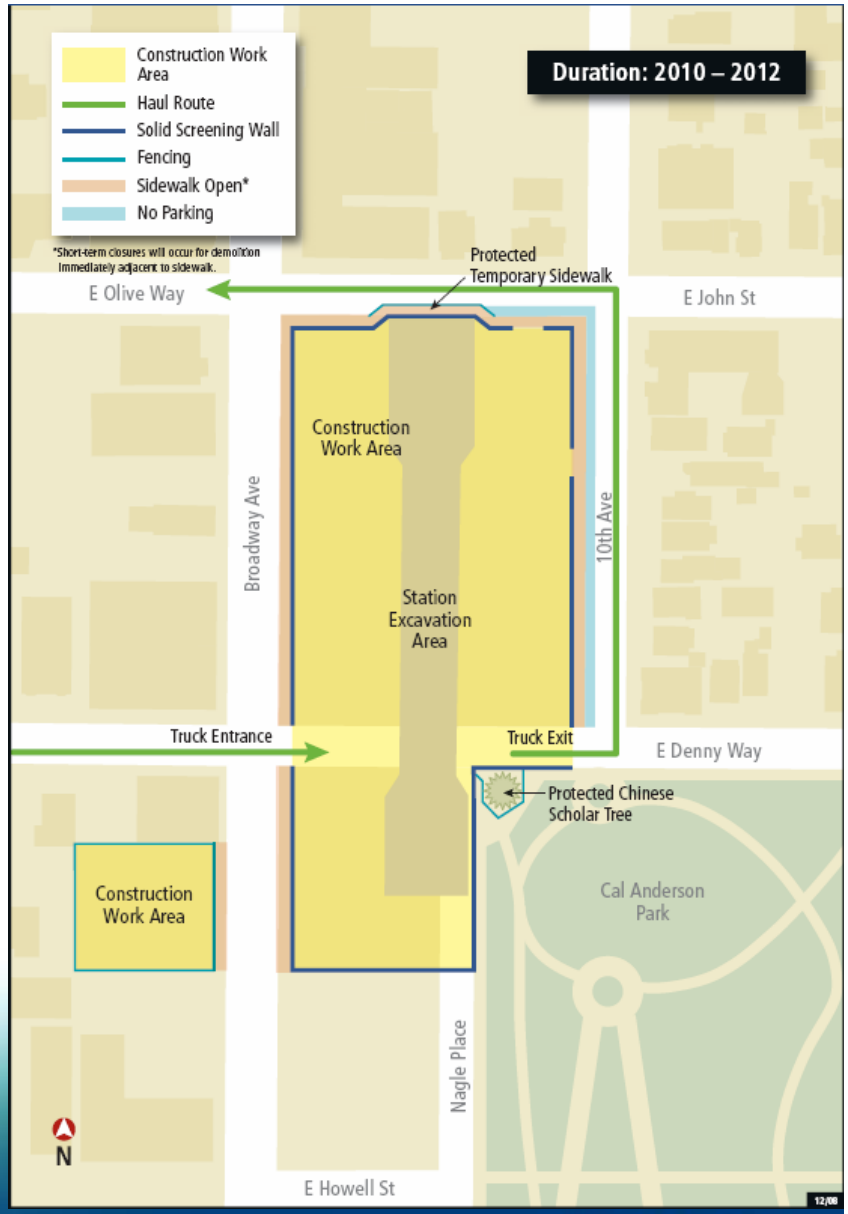
3. Station Excavation, Tunneling

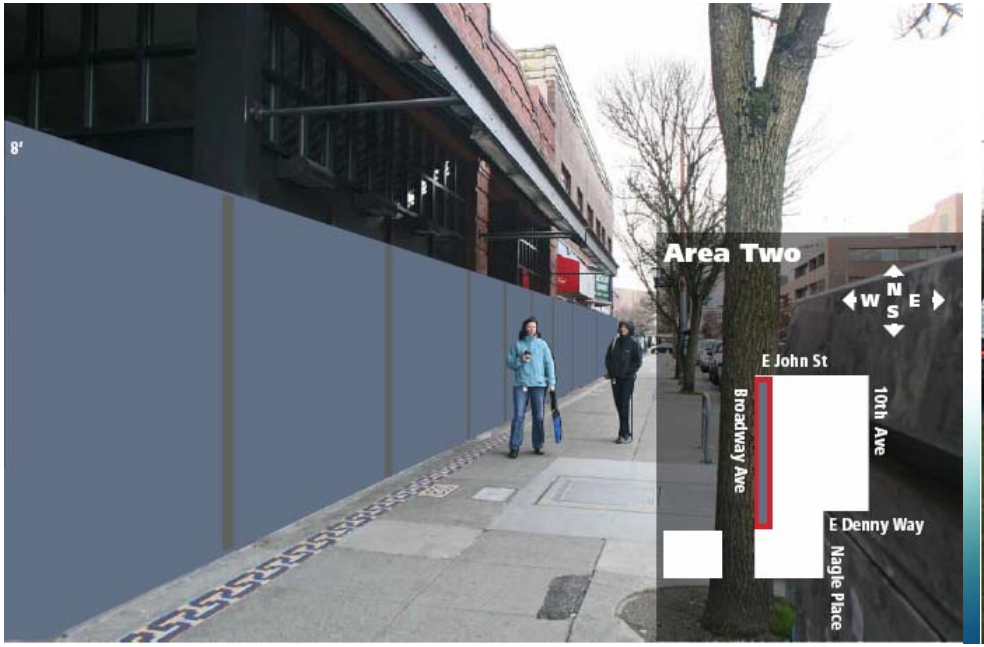
- Contract to be awarded in October
- Duration: Jan. 2010 to Dec. 2012
- Fenced work sites
- Denny and part of Nagle closed to traffic
- Sidewalks open
  - few short term closures
- Single Tunnel Boring Machine (TBM)
- 24/7 surface activity to support tunneling
- High truck volumes





Construction Walls

- Plywood walls will surround and screen main construction site perimeter 2010-2015
- Wall height:
  - 8 ft. tall along Broadway
  - 16 - 24 ft. tall along 10th Ave
  - Transition from 8 to 24 ft. along northern (John St.) and southern borders
- Contractor required to maintain wall (repaint annually, graffiti removal within 24 hours)



Construction Wall Aesthetics

- 3 Main Components
  1) Project identification
  2) Neighborhood promotion
  3) Art

- Wall to be constructed early 2010
- Concepts presented at future meeting

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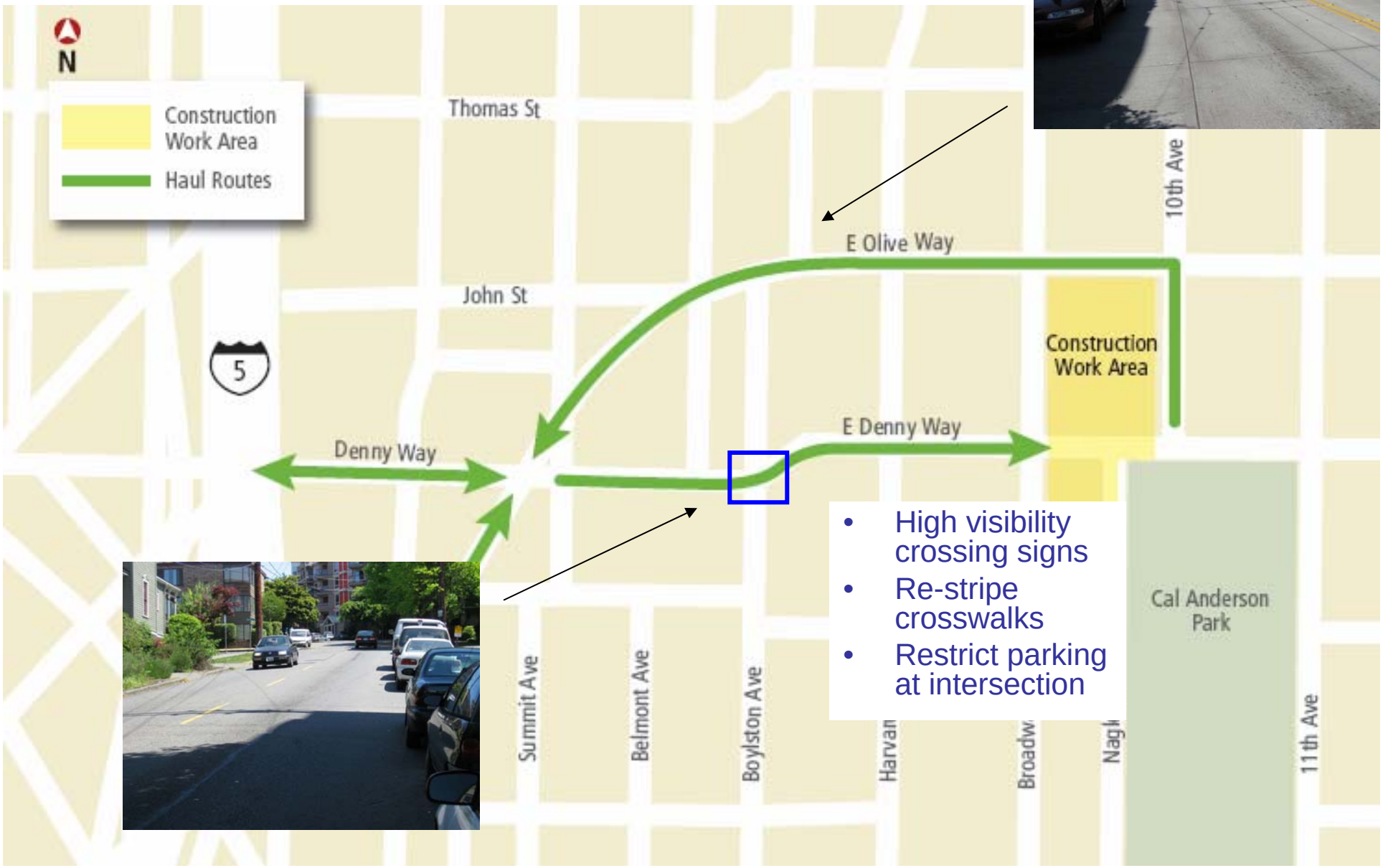
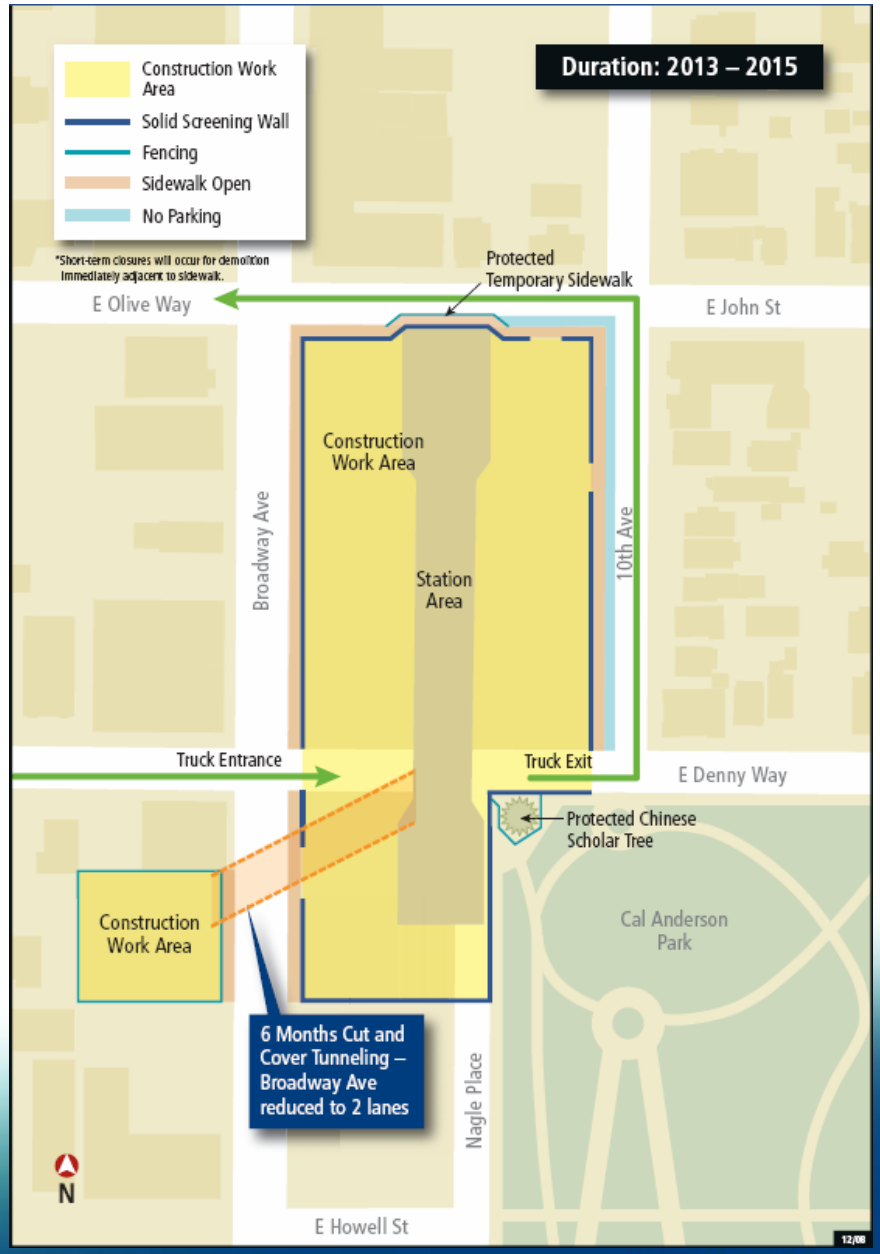
Truck Haul Routes
(beginning 2010)



- High visibility crossing signs
- Re-stripe crosswalks
- Restrict parking at intersection

4. Station Construction

- Duration: Jan. 2013 to Dec. 2015
- Less trucking activity
- Sidewalks open
  - Will be few short term closures
- Cut and cover pedestrian tunnel across Broadway (6 months)
  - Roadway remains open
  - Parking restrictions near work



Capitol Hill
Business Mitigation Update

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Business Mitigation

- Agreement between Sound Transit and Capitol Hill Chamber of Commerce
- 7 year program, $610,000
- Agreement consists of two key components:
  - Marketing and promotion for Capitol Hill
  - Business Technical Assistance

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Capitol Hill Marketing

- Comprehensive branding, marketing and promotion effort for Capitol Hill
- External research, branding/logo design and marketing plan concepts effort complete

Marketing Plan Goals:

1. Promote Capitol Hill as a great place to dine, shop and visit
2. Promote the existing sense of pride in the Capitol Hill Community

Marketing Plan Components

- Awareness campaign & advertising
- Website: www.YourCapitolHill.com
- Merchant marketing plan
- Contests
- Walking map

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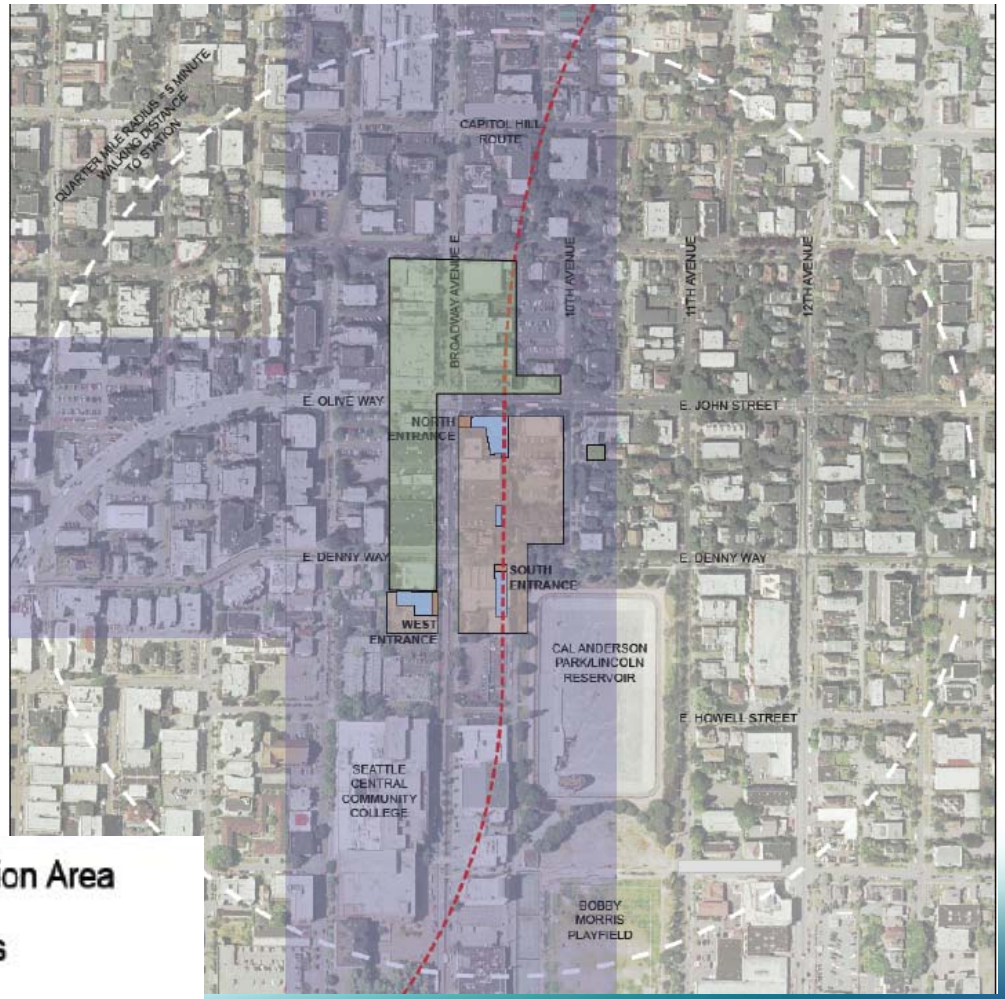
Business Technical Assistance

Provides assistance for affected businesses near the work site on Broadway

- Business seminars
- One-on-one consultations
- Partnerships with local colleges and universities



Capitol Hill Station Construction Area

Directly Impacted Businesses

Mitigation Program Broader Benefits Area

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Business Seminars

- Seminar series in restaurant, retailing and human resource management
- Consultant one-on-one sessions
- Offered in Spring 2009
- Approximately 50 businesses attended
- Next round targeted for Spring 2010

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College/University Partnership
Seattle University

- Seattle University MBA program (New Ventures)
- 2 eligible businesses on Capitol Hill can participate each academic quarter (10 weeks)
- Receive a comprehensive, independent analysis of business with a report and recommendations

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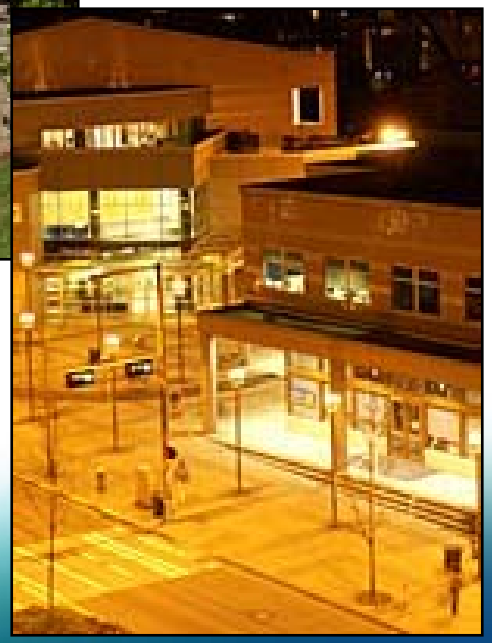
College/University Partnership
Seattle Central Community College

- Individual assistance in area of Information Technology
- Students hired as “interns” to work with businesses
- Website design and development
- Database/programming
- Network design



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Capitol Hill Business Mitigation Plan

- 24-hour construction hotline
- Access, signage and parking
- Softscape & pedestrian environment
- Advance notification & ongoing communication of construction activities

SOUNDTRANSIT

DOWNTOWN SEATTLE

LINK LIGHT RAIL Construction Alert

10.10.07

Restoration Repair Work: 8th Avenue Intersection South of Pine Street

Beginning at 9 a.m. on Thursday, Oct. 11, work will take place on 8th Avenue at the Pine Street intersection to repair a storm water line. This work will take place just south of the intersection on 8th Avenue.

Sound Transit constructed an extension to the existing Downtown Seattle Transit Tunnel under Pine Street between 7th and Boren avenues. This "stub tunnel" was completed this past May. During the final inspection of the new facility, it became known that the storm water line under 8th Avenue was disconnected. Sound Transit's contractor, Balfour Beatty, will be working over the next week to correct this issue.

During this work, 8th Avenue will be reduced to one northbound and one southbound lane between Pike and Pine streets. A police officer will be stationed at the 8th Avenue and Pine Street intersection to facilitate pedestrian and vehicle travel.

The work to correct the storm water line includes saw cutting, demolition of a small area at the intersection, repair of the water drain, backfilling and repaving. This work will take place between 9 a.m. and 5 p.m. starting on Thursday, Oct. 11 and is anticipated to last one week. Work will not occur on Sunday.

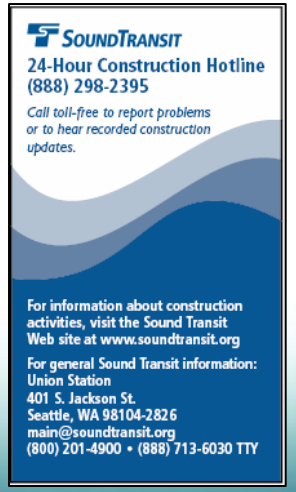
Storm Water Repair Work

Additional work will take place on Monday, Oct. 22 between 9 a.m. and 5 p.m. to add the final design element into the new pavement. This work will involve sawcutting within the vicinity of the south crosswalk.

Sound Transit Keeping You Informed

Sound Transit's toll-free Construction Hotline is available 24-hours-a-day at **1-888-298-2395**. If an urgent issue arises regarding Sound Transit construction, please call this number and someone will return your call promptly.

For questions about activities in Downtown Seattle related to Sound Transit's Central Link light rail construction, please contact Community Outreach Specialist Brooke Belman, 206-398-5238 or belmanb@soundtransit.org.



SOUNDTRANSIT

24-Hour Construction Hotline
(888) 298-2395

Call toll-free to report problems or to hear recorded construction updates.

For information about construction activities, visit the Sound Transit Web site at www.soundtransit.org

For general Sound Transit information:
Union Station
401 S. Jackson St.
Seattle, WA 98104-2826
main@soundtransit.org
(800) 201-4900 • (888) 713-6030 TTY

Next Steps

- Awareness and neighborhood promotion - fall/winter 2009
- Construction wall concepts - fall/winter 2009
- Temporary art at the site - dependent on contractor schedule
- Meet the contractor meeting - fall/winter 2009
- Business technical assistance seminars - Spring 2010

Nighttime Construction Noise

- Sound Transit will be seeking major public project construction noise variance for Capitol Hill site
- June 17 construction meeting:
  - Presented initial nighttime construction plans and noise predictions
- Tonight's update:
  - Updated noise measurements
  - Proposed mitigation measures
  - Noise variance application and process

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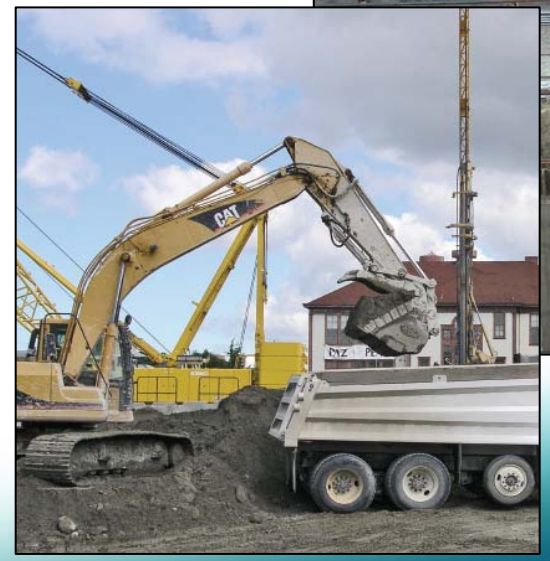
Why Work at Night?

- Anticipate up to two years of 24/7 construction activity to support tunneling work at Capitol Hill site beginning in early 2011
- Certain activities are required for tunnel worker safety
- Maximizes project safety, efficiency, duration and cost

What Goes on at Night?



<u>Type of Equipment</u>:

- Tunnel ventilation fans, pumps, air compressors
- Generator
- Vehicles
  - hauling and delivery trucks
  - muck haul trucks
  - front-end loaders, backhoe
  - loaders, excavators

- **No high impact equipment (jackhammers, concrete saws, etc.) will be allowed at night**

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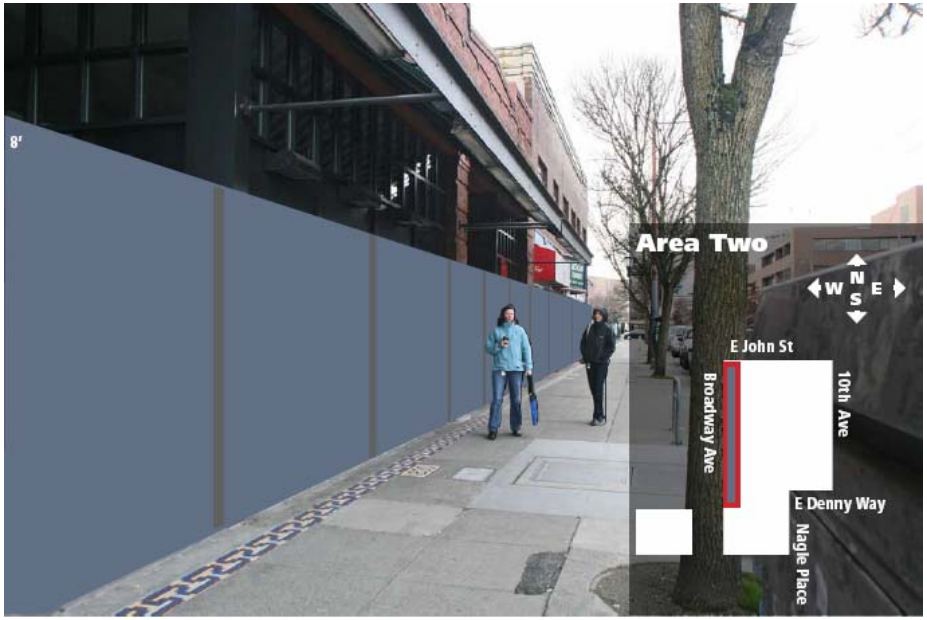
Noise Mitigation Requirements - Walls



Solid plywood construction screening wall between 8-24’ tall around site

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Noise Mitigation Requirements - Equipment

Stationary equipment (compressors, generators) enclosed in noise reducing material

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Noise Mitigation Requirements - Trucking

- Nighttime truck operations
  - **No tonal back up alarms**
  - Engine idle limit of 5 minutes
  - No compression brakes
  - Muck haul bins lined with noise dampening material
  - Haul trucks prohibited on 10th Ave during night hours

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Capitol Hill Site Noise Variance

- Sound Transit will seek noise variance from City of Seattle
- Noise variance establishes noise limits for contractor work between 10pm - 7am weekdays, 10pm - 9am weekends, holidays
- Daytime construction activities will comply with City's construction noise limits.

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Sound Level Scale

Table 1. A-weighted Levels of Common Sounds

	Sound	Sound Level[1]	Approximate Relative Loudness[2]
	Jet Plane @ 100'	130	128
120	Rock Music with Amplifier	120	64
110	Thunder, Danger of Permanent Hearing Loss	110	32
100	Boiler Shop, Power Mower	100	16
90	Orchestral Crescendo at 25 feet	90	8
80	Busy Street	80	4
70	Interior of Department Store	70	2
60	Ordinary Conversation @ 3'	60	1
50	Quiet Car at Low Speed	50	½
40	Average Office	40	¼
30	City Residence, Interior	30	1/8
20	Quiet Country Residence, Interior	20	1/32
10	Rustle of Leaves	10	1/64
0	Threshold of Hearing	0	1/128

1. dBA re: 20 μPa
2. As compared to ordinary conversation at 3 feet

Source: US Department of Housing and Urban Development, Aircraft Noise Impact Planning Guidelines November 1972.

Existing noise on Broadway

Existing noise on 10th Ave

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Existing Nighttime Noise

Hourly night-time average (midnight – 5 AM)

- Sound Transit to apply for up to 6 dba variance above existing nighttime noise

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Nighttime Construction and Noise Variance Application

- ST proposing up to 6 dba variance from existing levels for noise from nighttime construction work
- To mitigate noise, ST considering higher construction wall along 10th Ave
  - CH wall on 10th Ave previously proposed at 16', 24' wall now being considered
  - Haul trucks prohibited on 10th Ave during night hours
- With assumed mitigation measures including taller wall along 10th Ave, ST anticipates no exceedance of variance at buildings outside of construction site

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Monitoring and Responding to Complaints

- Continuous sound monitoring stations
- 24 - hour construction hotline: 1-888-298-2395
- Independent response by City noise abatement specialist
- City, ST and contractor will investigate, determine how to prevent future incidents, and respond back to caller
- City review of variance after 1 year

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Next Steps – Noise Variance

- Receive comments and questions tonight
- ST to incorporate feedback into variance application
- City of Seattle (DPD) will hold a public meeting to receive comments this fall
- City will decide whether to approve a noise variance within 60 days after public comment is received
- Contractor will prepare a detailed noise management plan
- Follow-up information at meeting(s) in late 2009 / early 2010
- Tunnel construction activities begin – early 2011

Questions?

Staying Informed

- Upcoming Meetings:
  - TOD Community Forum 10/27, 6-8 pm at Century Ballroom
  - Meet the Contractor - late 2009
- Monthly electronic newsletters www.soundtransit.org/subscribe
- Printed and electronic construction alerts
- Regular construction update meetings
- Full time outreach staff
- 24 hour construction hotline 1-888-298-2395

SOUNDTRANSIT

www.soundtransit.org/u-link

U-Link Project Update for April 2008

In this issue:

- What is University Link?
- Managing Property on Broadway
- Truck Haul Routes for Capitol Hill
- Capitol Hill Open House
- Noise and Vibration Analysis

Alignment map - full-size version now available online in the new images gallery.

New online
University Link Images Library

Maps, presentations, artist renderings and more for the University Link project.

Jeff Munnoch
Community Outreach Specialist
jeff.munnoch@soundtransit.org or 206-398-5131

What is University Link?
University Link is a 3.15-mile extension of light rail between downtown Seattle to the University of Washington with one station at Capitol Hill and one on the University of Washington campus near Husky Stadium. Light rail service for University Link will operate in two tunnels (northbound and southbound) stretching between Westlake Station in downtown Seattle, and the University of Washington Campus. Once built, University Link will connect the region's three most densely populated urban centers— downtown Seattle, Capitol Hill/First Hill, and the University District— with a fast, frequent and reliable light rail line. U-Link will add 70,000 daily boardings systemwide. It is estimated to save 4.5 million hours of travel time annually. University Link is scheduled to open for service in 2016.

Managing Property on Broadway
Sound Transit currently owns almost all of the property needed in order to construct the Capitol Hill station. As residents and businesses move to their new locations, more and more of the buildings will become vacant. Demolition of the properties is scheduled to take place early next year.

Sound Transit is committed to being a good neighbor and is taking pro-active steps to address safety concerns, and maintain a positive environment.

All of the buildings owned by Sound Transit are secured to prevent unauthorized access and other inappropriate activity. Any graffiti is removed promptly, and security personnel patrol the properties throughout the night to check for potential problems.

Wherever possible Sound Transit is using art to help create a positive and lively environment and discourage vandalism. Landscape scenes and other graphics printed on vinyl coverings are being used to soften the impact of unoccupied buildings. The vinyl coverings also discourage graffiti.

Vinyl coverings with cloud and sky images

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